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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,215	01/17/2006	Jonathan Lightner	7896-71314-07	5991
74051 7590 04/15/2008 Klarquist Sparkman, LL.P 121 SW Salmon St., Floor 16			EXAM	IINER
			MCELWAIN, ELIZABETH F	
Portland, OR 9	97204		ART UNIT	PAPER NUMBER
			1638	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)	
10/539,215	LIGHTNER ET AL.		
Examiner	Art Unit		
Elizabeth F. McElwain	1638		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

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Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE WHICHEVER IS LONGER, FROM THE MAILING DATE O Extensions of time may be available under the provisions of 37 CFT 1.136(a). In after SIX (6) MONTH'S from the mailing date of the communication. In after SIX (6) MONTH'S from the mailing date of the communication. Failure to reply within the set or outended period for reply will, by stables, cause if Any reply received by the Office later than three months after the mailing date of earned patter term adjustment. See 37 CFR 1.74(b).	F THIS COMMUNICATION. no event, however, may a reply be timely filed and will expire SIX (6) MONTHS from the mailing date of this communication. he application to become ABANDONED (35 U.S.C. § 133).
Status	
Responsive to communication(s) filed on <u>04 Februar</u> 2a) This action is FINAL. 2b) This action 3) Since this application is in condition for allowance exclosed in accordance with the practice under Ex parter.	is non-final. cept for formal matters, prosecution as to the merits is
Disposition of Claims	
4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) 9-11 is/are withdrawn from 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election.	
Application Papers	
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted of Applicant may not request that any objection to the drawing Replacement drawing sheet(s) including the correction is reconstruction. The oath or declaration is objected to by the Examine.	g(s) be held in abeyance. See 37 CFR 1.85(a). equired if the drawing(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	
Acknowledgment is made of a claim for foreign priority a) All b) Some * c) None of: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have application from the International Bureau (PCT * See the attached detailed Office action for a list of the	been received. been received in Application No cuments have been received in this National Stage Rule 17.2(a)).
Attachment(s)	
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)

1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) X Information Disclosure Statement(s) (FTO/SE/08)	5) Notice of Informal Patent Application
Paper No(s)/Mail Date 7/31/06;4/6/07.	6) Other:

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DETAILED ACTION

Election/Restrictions

 Applicant's election of Group I, claims 1-8, in the reply filed on February 4, 2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 9-11 are withdrawn, as drawn to a non-elected invention.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1 and 6, and claims 2-5, 7 and 8 dependent thereon, are indefinite in the recitation of "high oil phenotype relative to control plants" and "altered oil content phenotype relative to control plants", given that it is unclear what is encompassed by "control plant" and the specification fails to set forth the metes and bounds of this term.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in such that the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al (US PGPub 2002/0078475 in IDS) taken with Harper et al (US PGPub 2002/0160378).
- 8. The claims are drawn to a transgenic plant comprising a plant transformation vector that is comprising a nucleotide sequence that encodes or is complementary to a sequence that encodes a citrate synthase polypeptide comprising the amino acid sequence of SEQ ID NO: 2 or an ortholog thereof whereby the transgenic plant has a high oil phenotype relative to control plants.
- 9. Li et al teach optimizing plants for seed oil production by transforming a plant with a gene encoding an enzyme in the beta-oxidation pathway, including citrate synthase (see paragraphs 16-17 of the Detailed Description, for example).
- 10. Li et al do not specifically teach an isolated gene encoding citrate synthase activity.
- Harper et al (SEQ ID NO: 1553) teach a nucleic acid sequence encoding a citrate synthase having 87% sequence similarity to a nucleic acid encoding SEO ID NO: 2.

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12. Given the recognition of those of ordinary skill in the art of the desirability of producing a transgenic plant having a high oil phenotype by transforming a plant with a gene encoding an enzyme in the beta-oxidation pathway, such as citrate synthase, as taught by Li et al, it would have been obvious to use the method of Li et al and to modify it by substituting the citrate synthase coding sequence taught by Harper et al, which would be considered an ortholog of the citrate synthase of SEQ ID NO: 2. Thus the claimed invention would have been prima facie obvious as a whole to one of ordinary skill in the art at the time it was made, especially in the absence of evidence to the contrary.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth F. McElwain whose telephone number is (571) 272-0802. The examiner can normally be reached on increased flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EFM

/Elizabeth F. McElwain/ Primary Examiner, Art Unit 1638